Network Operations Architecture Assistance
Questions and Answers

1. What is the existing team at MnDOT? What are their responsibilities/titles?
   A: One architect, three LAN/WAN specialists, three web/app hosting specialists, three specialists and two remote access specialists.

2. Is there an existing Project Manager or do we need to provide a Project Manager?
   A: There is no functional project manager assigned to the project.

3. How many applications is Mn/DOT hosting?
   A: Approximately 60.

4. How many users (roughly) of those applications, and where are they located?
   A: Mn/DOT has roughly 4,200 users in approximately 250 sites.

5. How do those users access the application(s)?
   A: Mostly web browser, some Citrix.

6. How many remote sites on Mn/DOT's WAN?
   A: Roughly 300

7. Is Mn/DOT currently using public IP address space?
   A: Some public, some private.

8. Is Mn/DOT planning on moving to IPv6 as a part of this migration?
   A: No.

9. What is driving the network segmentation, and what specifically is Mn/DOT planning to segment?
   A: Desire to secure critical resources.

10. Does Mn/DOT have mainframe systems? Are they in scope for possible segmentation?
    A: Mn/DOT does not operate any mainframe systems.

11. Does Mn/DOT have mid-range (Tandem, HP Non-stop, AS400, etc) systems? Are they in scope for possible segmentation?
    A: Mn/DOT does not operate any mid-range systems.

12. The SOW mentions numerous web technologies. What is the breakdown in web application platforms, Can you provide a percentage of Java Apps, and applets, IIS hosted apps, Apache Hosted Apps.?
    A: Not available at this time.

13. Where were the applications developed:

- For internal apps are current resources able to develop and restructure the existing applications?
  A: Applications that need to be modified will have developer resources identified as part of any project to modify them.
- For external apps are the applications current and is there current maintenance with the vendor?
  A: Most applications were developed internally or with contractors. Some have support and some do not.

14. What regulatory compliance criteria must be meet? A breakdown by application would be best.
    A: These criteria are unavailable at this time.

15. How many apps have dependencies on other Federal, State, County agencies, or Third Party's ?
    A: Unknown. The stewards or offices responsible for these applications are aware and responsible for dependencies.

16. Are there SLAs in place covering these dependencies?
    A: Unknown.

17. Is there a centralized and common authentication and authorization system for all applications? MS AD is mentioned, but it's unclear if it is used as the standard.
    A: No. There is not a common authentication system for all applications.

- Are non-employees, and or customers also represented in a common authentication and authorization system?
  A: No. There is not a common authentication system for all applications.
- Could the ubiquity of Single Sign On be expressed. Is this a desired goal in the re-architecture?
  A: It is always a goal and may be part of some efforts within this project.

18. Web applications are generally reliant on additional application tiers and databases. Could you expound on the tertiary systems on which the mention applications depend? Hardware, OS, Applications and Database types?
    A: Oracle DB, SQL*Server, JBoss and Oracle Forms serve many of the applications hosted here.

19. Could you explain which, if any, applications or application infrastructure is accessed primarily over slower networks, dial-up or cellular for example?
    A: Most Mn/DOT offices are on WAN links that are not dial-up or cellular. However, there are field workers and remote access users who do operate at those speeds and may access many of these applications.

20. Does Mn/DOT have metrics and monitoring in place that establish baseline utilization and response times for the components of the existing applications?
    A: Some applications are monitored for up/down or response time. Most are not monitored at a component level at this time.

- Could you briefly describe how this is done?
  A: Using commercially available network management systems.